

# Nolan W. Platt

[nolanplatt@vt.edu](mailto:nolanplatt@vt.edu) • [nolanplatt.com](http://nolanplatt.com) • [linkedin.com/in/nolanplatt](https://linkedin.com/in/nolanplatt)

## EDUCATION

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### Virginia Tech

May 2026

*B.S. in Computer Science, Minors in Physics and Astronomy*

*Blacksburg, VA*

**Activities:** Phi Sigma Kappa Fraternity, Kappa Theta Pi Professional Fraternity, Special Olympics, Center for Human-Computer Interaction (CHCI), Interdisciplinary Projects at Virginia Tech (IDPro).

**Dean's List:** S24, F24

**GPA:** 3.51/4.0

**In-Major GPA:** 3.70/4.0

## TECHNICAL SKILLS

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### Languages

C, C++, Java, JavaScript, Python, R, SQL, Assembly (x86-64), RISC-V, Go, MATLAB, HTML

### Technologies

Linux, LLM Research, Computer Systems, Flask, Git, PyTorch, NodeJS, Nginx, Tensorflow, LLMs, APIs

### Tools

Jupyter Notebook, RaspberryPi, Arduino, CI/CD, Firebase, Docker, AWS, Microsoft Active Directory

## EXPERIENCE

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### Naval Air Systems Command (NAVAIR)

Jan. 2025 - Present

*Undergraduate Research Assistant*

*Blacksburg, VA*

- Designing a Go/No-Go gauge for the aerial refueling (AR) hose on Lockheed Martin KC-130 tankers. Utilizing data science and computational aeroelastic analysis to improve AR hose failure detection.

### Virginia Tech College of Engineering - Dean's Office

Jan. 2025 - Present

*IT Technician*

*Blacksburg, VA*

- Diagnosing and troubleshooting software/hardware issues for over **thousands** of undergraduate and graduate engineering students. Resolving students' issues with high accuracy through the **ServiceNow** IT workflow system.

### Virginia Tech Department of Computer Science

Jan 2025 - Present

*Undergraduate Research Assistant*

*Blacksburg, VA*

- Prof. Cliff Shaffer: Collaborating on the OpenDSA project through **Python, Ruby, JS, Docker**, and **Sphinx**, focusing on updating outdated libraries and directives. Used at **over 100** universities for CS education. Updated directive versions by over **76%** thus far, significantly improving the reliability and efficiency of the infrastructure.
- Prof. Sehrish Nizamani: First-authoring research paper exploring how LLMs can be used to identify usability issues at the development stage of website and application development. Presented research at **two major conferences**.

### Virginia Tech Department of Engineering Education

Aug. 2024 - Dec. 2024

*Undergraduate Research Assistant*

*Blacksburg, VA*

- Prof. Bingyu Zhao: Developed computer vision model in **Python** and the **YOLO** object detection library to automatically measure plant growth in an indoor laboratory, resulting in **97%** accuracy.

### Phi Sigma Kappa Fraternity

Nov. 2023 - Dec. 2024

*Scholarship Chairman*

*Blacksburg, VA*

- Responsible for supporting academic success and ensuring GPA requirements were met for **over 100** members, leading to a **57%** increase in chapter GPA. Led chapter to the highest Dean's List percentage out of all fraternities at Virginia Tech.

## PROJECTS

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### ALPS | C++, Jupyter, Applied Physics

Mar. 2025

- Improving numerical simulations in both theoretical quantum physics and theoretical condensed matter physics. Working with researchers in more than **52 countries** and **20 research disciplines**.

### GradeGetter | NodeJS, Selenium, PM2

Jun. 2023

- Provided real-time grade notifications (via SMS) to over **2,500** high school students over a span of **3 years**. The lack of an institutional notification system caused more than **40%** of students to use GradeGetter.